

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-82 (Canceled)

83. (Previously presented) A method for improving a nutritional profile of a plant, comprising the steps of:

transforming a plant cell of said plant with an expression cassette comprising a nucleic acid sequence encoding a choline metabolizing enzyme operably linked to a seed specific promoter, said plant selected from the group consisting of corn, canola, wheat, barley, oats, alfalfa, soybeans and sorghum; and

recovering a genetically altered plant from said plant cell, said genetically altered plant characterized by an improved nutritional profile relative to a wild-type of said plant.

84. (Previously presented) The method according to claim 83 wherein said choline metabolizing enzyme is choline oxidase.

85. (Previously presented) The method according to claim 84, wherein said expression cassette further comprises a nucleic acid sequence that encodes a betaine aldehyde dehydrogenase capable of converting betaine aldehyde to betaine.

86. (Currently amended) The method according to any one of claims 81-83 claim 83, wherein said substrate is not a primary metabolite of the group selected from glucose, amino acids, common fatty acids and nucleotides.

87. (Currently amended) The method according to any one of claims 81-83 claim 83, wherein said seed selective promoter is a phaseolin promoter or a napin promoter.

88. (Currently amended) The method according to any one of claims 81-83 claim 83, comprising the further step of: